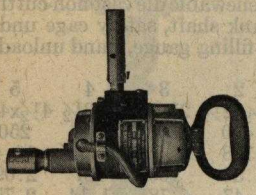
U. S. ELECTRICALLY-DRIVEN DRILLS

DIRECT OR ALTERNATING CURRENT, 110 OR 220 VOLTS

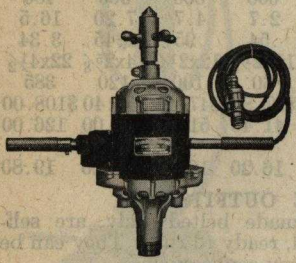


Type B

TYPE B DRILLS

Type B is air-cooled, very handy for small holes, such as oil holes, drilling lagging pin holes, etc. Furnished complete with chuck, flexible cable and attachment plug. Attaches to any incandescent lamp socket.

Speed R. P. M.	Capacity Inches	Dimens. Inches	Wt. Lbs.	Direct Current Trade No.	Direct Current Price Each	Alternating Current Trade No.	Alternating Current Price Each
900	¼	4x13	9	108285	$48.00	108276	$49.00

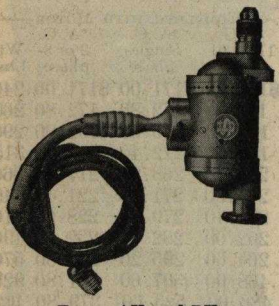


Type G

TYPE G DRILLS

Type G drill is removed from its socket by means of screwing collar on screw feed flush with top of drill. It is regularly equipped with a No. 3 Morse taper. Drill is run off the ordinary incandescent lamp socket.

180	1¼	6x18½	38	108277	120.00	108278	125.00



Types AU and BU

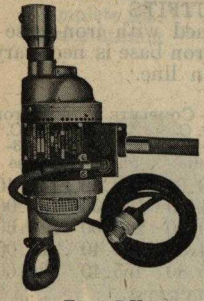
DRILLS WITH UNIVERSAL MOTORS

The motors in these drills are universal-wound and are made to operate on both direct and alternating current of 250 volts, 30, 40, or 60 cycles, and can be furnished for 110 or 220 volts, as specified. They are air-cooled.

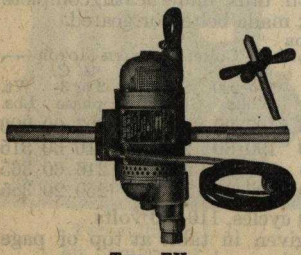
Each drill is equipped with a new type of switch of simple design, which can be very easily taken apart, and furnished with a cord and plug to connect to any lamp socket.

All parts are interchangeable. The gears are of chrome nickel steel and hardened. The armature shaft pinion is removable. All spindles are ground to size. Gears and bearings run in grease-filled compartments.

The cases are of aluminum, strong and durable, but light in weight.



Type DU



Type EU

Trade No.	Speed R. P. M.	Capacity Inches	Dimens. Inches	Wt. Lbs.	Price Each
		Type AU			
108279	1400	3/16	3½x 9	6	$44.00
		Type BU			
108280	900	¼	3½x11	7	49.00
		Type CU			
108281	750	⅜	4½x14	12	64.00
		Type DU			
108282	450	½	5 x18	18	78.00
		Type EU			
108283	280	⅞	6 x16½	28	110.00
		Type GU			
108284	....	1¼	.....	41	130.00

In ordering, specify voltage.

U. S. ELECTRIC COMBINATION GRINDERS

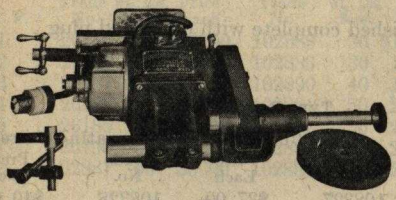
DIRECT OR ALTERNATING CURRENT, 110 OR 220 VOLTS

INTERNAL AND EXTERNAL GRINDERS

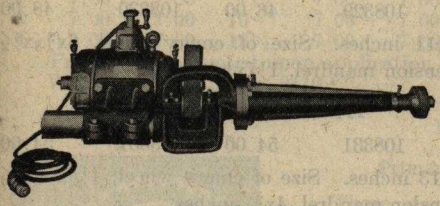
The illustrations show internal grinders, made with an angle plate to be bolted in tool post rest of lathe. For grinding engine cylinders, dies or journals, extra lengths of internal grinding attachment can be furnished.

The internal attachment can be taken off and the grinder then used for external grinding the same as regular center grinders. Any speed desired can be furnished by changing pulleys. Bearings are adjustable for wear and are dustproof. Runs off ordinary lamp socket.

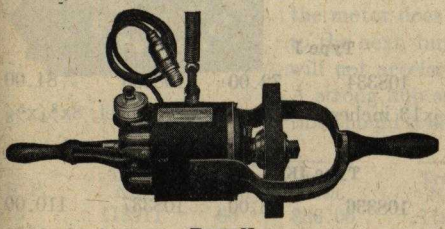
Types N and O are used in connection with spring or balance weight. Adapted for grinding high places off casting or chilled spots. They also carry a felt wheel for polishing or a wire brush. For grinding metal or composition; do away with hand filing and chipping.



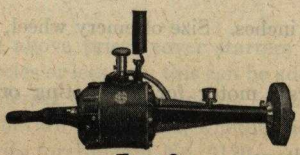
Type HL



Types JL, JKL and ML



Type N



Type O

Type HL

H. P.	Wt. Lbs.	Direct Current Trade No.	Direct Current Price Each	Alternating Current Trade No.	Alternating Current Price Each
¼	24	108296	$80.00	108297	$85.00

Speed, external, 4500 R. P. M.; internal, 18000 R. P. M.

Size of wheel for external grinding, 6x⅜ inches; for internal grinding, 1x¼ inch. Will grind to depth of 4½ inches.

Type JL

½	82	108298	110.00	108299	115.00

Speed, external, 3000 R. P. M.; internal, 9000 R. P. M.

Size of wheel for external grinding, 8x¾ inches; for internal grinding, 2x½ inches. Will grind to depth of 8 inches.

Type JKL

1	105	108300	130.00	108301	135.00

Speed, external, 2400 R. P. M.; internal, 8500 R. P. M.

Size of wheel for external grinding, 10x1 inches; for internal grinding, 2½x¾ inches. Will grind to depth of 12 inches.

Type ML

2	245	108302	185.00	108303	195.00

Speed, external, 2050 R. P. M.; internal, 7500 R. P. M.

Size of wheel for external grinding, 12x1¼ inches; for internal grinding, 3x¾ inches. Will grind to depth of 18 inches.

Type N

H. P.	Speed R. P. M.	Wt. Lbs.	Direct Current Trade No.	Direct Current Price Each	Alternating Current Trade No.	Alternating Current Price Each
1	2700	45	108304	$78.00	108305	$84.00

Dimensions, 6½x17 inches. Size of emery wheel, 8x1x⅝ inches.

Type NN

..	3000	45	108306	62.00	108307	72.00

Size of emery wheel, 8x¾x⅝ inches.

Type NK

..	2400	62	108308	84.00	108309	104.00

Size of emery wheel, 10x1x⅞ inches.

Type NE

..	2050	105	108310	120.00	.....	125.00

Size of emery wheel, 12x1¼x⅞ inches.

Type OB

¼	3500	20	108311	55.00	108312	65.00

Dimensions, 5½x21 inches. Size of emery wheel, 5x¾ inches.

Type O

½	3500	48	108313	75.00	108314	82.00

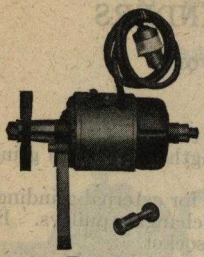
Dimensions, 6x30 inches. Size of emery wheel, 6x1 inches.

Type OO

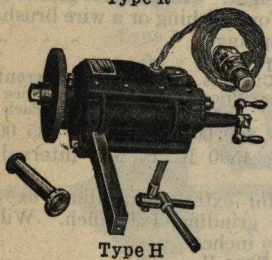
1	3000	65	108315	85.00	108316	104.00

Dimensions, 7½x32 inches. Size of emery wheel, 8x1 inches.

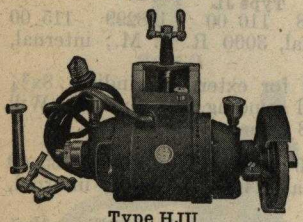
In ordering, specify voltage.



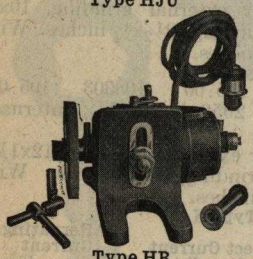
Type R



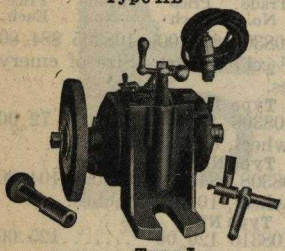
Type H



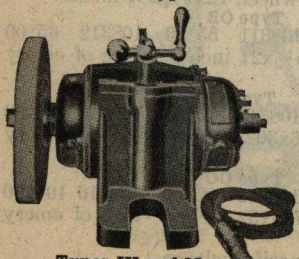
Type HJU



Type HB



Type J



Types JK and M

U. S. ELECTRIC CENTER GRINDERS

DIRECT OR ALTERNATING CURRENT, 110 OR 220 VOLTS

Type R has no slide and is made for lathes with a compound rest. Types R, H and HJU are furnished with an internal grinding attachment and Types H and HJU with tooth rest. Type HJU can be used on both direct and alternating current and is furnished with shank for tool post same as Type H or with angle plate as shown.

Types HB, J, JK and M are all fitted with angle plates and can be used on lathe, boring mill, shaper or planer, for cylindrical or surface grinding.

All types are furnished complete with cable and plug.

Type R

H. P.	Speed R. P. M.	Weight Pounds	Direct Current Trade No.	Direct Current Price Each	Alternating Current Trade No.	Alternating Current Price Each
¼	4500	13	108327	$37.00	108328	$40.00

Dimensions, 4½x8 inches. Size of emery wheel, 6x⅜x½ inches.

Type H

¼	4500	21	108329	46.00	108330	48.00

Dimensions, 5x11 inches. Size of emery wheel, 6x⅜x½ inches. Size of extension mandrel, 1¼x¼ inches.

Type HJU*

¼	5000	25	108331	54.00	108331	54.00

Dimensions, 5x13 inches. Size of emery wheel, 4½x½x½ inches. Size of extension mandrel, 4x¾ inches.

Type HB

¼	4500	20	108332	40.00	108333	44.00

Dimensions, 4x11 inches. Size of emery wheel, 6x⅜x½ inches.

Type J

½	3000	48	108334	72.00	108335	84.00

Dimensions, 6½x13 inches. Size of emery wheel, 8x¾x⅝ inches.

Type JK

1	2400	87	108336	98.00	108337	110.00

Dimensions, 7½x15½ inches. Size of emery wheel, 10x1 inches.

Type M

2	2050	120	108338	145.00	108339	145.00

Dimensions, 8½x18½ inches. Size of emery wheel, 12x1¼ inches.

*For use with universal motor for alternating or direct current.

In ordering, specify voltage.